

## CLAIMS

1. A method for displaying an in vivo image stream, said method comprising:  
displaying a plurality of frames from the in vivo image stream  
substantially simultaneously; and  
5 positioning frames in a spatial order based on a predetermined criteria.
2. The method according to claim 1 comprising displaying the in vivo image  
stream as a multi-frame image stream.
3. The method according to claim 2 comprising adjusting a rate at which the  
multi-frame image stream is displayed based on the content of the  
10 frames.
4. The method according to claim 1 wherein the predetermined criteria  
includes a degree of variation of the displayed images as compared to  
a reference image.
5. The method according to claim 1 wherein the predetermined criteria  
15 includes a degree of color variation between the displayed images.
6. The method according to claim 1 wherein the predetermined criteria is  
based on a reading from a non-image sensor.
7. The method according to claim 1 comprising assigning a score to each of  
the plurality of frames based on the predetermined criteria.
- 20 8. The method according to claim 7 comprising spatially positioning each of  
the frames displayed in an order based on the assigned scores.
9. The method according to claim 7 comprising adjusting the size of at least  
one of the frames displayed based on the assigned scores.
10. The method according to claim 1 wherein the in vivo image stream includes  
25 frames captured from more than one image sensor.
11. The method according to claim 1 comprising displaying sensor data from a  
sensor other than an image sensor substantially simultaneously with  
the frames from the in vivo image stream.
- 30 12. A system for displaying an in vivo image stream, the system comprising:  
an in vivo imaging device to transmit an in vivo image stream;  
a processor to generate a multi-frame image stream from the in vivo

image stream and to determine a spatial position of frames to be displayed substantially simultaneously in the multi-frame image stream based on a predetermined criteria; and  
a display to display said multi-frame image stream.

- 5 13. The system of claim 13 wherein the in vivo imaging device is an autonomous capsule.
14. The system of claim 13 comprising a pH sensor.
15. The system of claim 13 wherein the predetermined criteria includes a sensor reading.
- 10 16. The system of claim 13 wherein the image capture device comprises a non-image sensor.
17. The system of claim 13 wherein the processor is to adjust the stream rate of the multi-frame image stream.
18. A method for displaying an in vivo image stream, the method comprising:  
15 selecting a plurality of frames from an in vivo image stream;  
positioning the plurality of frames in an order based on a criteria of interest; and  
displaying the plurality of frames substantially simultaneously.
19. The method according to claim 18 comprising comparing a frame from the  
20 plurality of frames to a reference image.
20. The method according to claim 18 comprising assigning scores to the plurality of frames based on the criteria of interest.
21. The method according to claim 18 comprising displaying the plurality of frames in different sizes substantially simultaneously.
- 25 22. The method according to claim 18 comprising defining a threshold of the criteria of interest.
23. The method according to claim 18 wherein the criteria of interest is color variation between the plurality of frames.